Chapter 7: Costs

Background

The United States spends approximately 1% of its total Gross Domestic Product for the treatment of mental illness.(McGuire 1991) In 1990, the direct treatment costs for depression in the United States were \$12 billion, with \$1-2.9 billion spent on mental health specialists(Greenberg et al. 1993). However, the direct costs of mental health care account for only a fraction of the difference in healthcare expenditures between depressed and nondepressed patients (Simon, VonKorff and Barlow,1995).

Depressed patients have almost double the medical expenditures of nondepressed patients, even after adjusting for comorbidity (Simon, VonKorff, and Barlow 1995). Depression is associated with longer hospital stays and higher costs, (Levenson, Hamer, and Rossiter 1990) and depressed patients have nearly three times the outpatient pharmacy costs compared to patients not taking antidepressants (Simon, VonKorff, and Barlow 1995). However, antidepressant drugs account for less than half of these cost differences.

Increases in non-mental health specialty utilization is particularly important among depressed elderly patients, who have higher rates of medical illness and who are less likely than younger patients to see a mental health specialist (Unutzer et al. 1997) (Blazer, 1996).

To provide the broadest range of information, we report on total costs for depressed patients in FY02, the relative costs of psychiatric and medical care, and the relative costs of inpatient and outpatient care.

The Allocation Resource Center (ARC) in Braintree, Massachusetts provided the cost data for each patient by facility and cost center. Please see Appendix D for detailed information about ARC cost data.

Findings

Approximately \$3.0 billion was spent in FY02 for medical and psychiatric care for depressed patients. The mean expenditure per patient was \$12,200.

Twenty-seven percent of all healthcare costs were for psychiatric care; 92% of costs were for outpatient services and 8% for inpatient services.

When mean patient costs were compared across cost centers, the top cost center was psychiatry (\$985), followed by medical (\$912) and surgical (\$513). For a more detailed description of services included in each cost center, please see Appendix D.

Table 7.A: Costs, by Diagnosis Grouping

| | | | FY02 Patients v | vith Depression | | |
|--------------------------------------------|------|--------------------------|-----------------|-----------------|--------------------|-------------|
| | | Dep alone or w/OthAnx | Dep + SAbuse | Dep + PTSD | complicated Dep | All |
| | | N=158,768 | N=67,890 | N=57,720 | N=20,744 | N=305,122 |
| Total DSS cost (in thousands \$\$) | | \$1,124,978 | \$997,607 | \$528,760 | \$252,622 | \$2,903,967 |
| | % | 39% | 34% | 18% | 9% | 100% |
| Psych vs. Non-Psych costs | | | | | | |
| Psychiatric costs | % | 20.9% | 40.3% | 28.5% | 24.9% | 27.0% |
| Non-psychiatric costs | % | 79.1% | 59.7% | 71.5% | 75.1% | 73.1% |
| Total | % | 100 | 100 | 100 | 100 | 100 |
| Hospital costs, (pts with hospital use) | | | | | | |
| Per patient | Mean | \$12,719 | \$11,646 | \$11,020 | \$15,417 | \$12,200 |
| Per day of stay | Mean | \$1,452 | \$920 | \$1,280 | \$1,064 | \$1,153 |
| Outpatient (OP) costs, pts with OP use | | | | | | |
| Per patient | Mean | \$5,064 | \$7,400 | \$6,923 | \$7,084 | \$6,073 |
| Per visit day | Mean | \$327 | \$272 | \$306 | \$329 | \$311 |
| Patient costs by cost center, all pts | | | | | | |
| Medical | Mean | \$815 | \$1,221 | \$665 | \$1,328 | \$912 |
| Surgical | Mean | \$501 | \$581 | \$470 | \$505 | \$513 |
| Psychiatric | Mean | \$224 | \$2,893 | \$553 | \$1,773 | \$985 |

Number of patients

| | | | | | | | | | | | | | | | | | | | | İ |
|--------|-------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Visn1 | Visn2 | Visn3 | Visn4 | Visn5 | Visn6 | Visn7 | Visn8 | Visn9 | Visn10 | Visn11 | Visn12 | Visn15 | Visn16 | Visn17 | Visn18 | Visn19 | Visn20 | Visn21 | Visn22 | Vis23 |
| 15,261 | 8,357 | 11,389 | 13,786 | 7,424 | 13,955 | 17,387 | 28,388 | 14,096 | 12,800 | 12,166 | 11,393 | 14,167 | 27,988 | 13,648 | 13,329 | 8,791 | 15,508 | 13,814 | 17,217 | 14,258 |

Section 7. Cost by VISN

ALL COSTS ARE IN THOUSANDS OF DOLLARS

| Total F | Y02 D | SS Cos | sts, | | | | | | | | | | | | | Overal | I = \$2,903 | 3,967 | | |
|------------------|----------|------------------|----------------|--------------------|-----------|-----------|-----------|-----------|----------------|----------|----------|----------|----------|----------|----------|----------|--------------|-------------|----------|------|
| Visn1 | Visn2 | Visn3 | Visn4 | Visn5 | Visn6 | Visn7 | Visn8 | Visn9 | Visn10 | Visn11 | Visn12 | Visn15 | Visn16 | Visn17 | Visn18 | Visn19 | Visn20 | Visn21 | Visn22 | Visn |
| 160,735 | 82,924 | 137,924 | 126,399 | 89,468 | 117,322 | 147,749 | 229,919 | 122,759 | 120,206 | 104,301 | 135,276 | 120,169 | 231,264 | 128,479 | 110,264 | 85,337 | 161,128 | 155,626 | 184,662 | 152, |
| Psychia | atric co | sts, % | | | | | | | | | | | | | | Overa | all % = 27 | % | | |
| 34.9% | 28.7% | 27.5% | 26.8% | 30.1% | 25.9% | 25.7% | 20.7% | 21% | 29.9% | 27% | 27.5% | 21.8% | 25% | 25.4% | 27.2% | 28.2% | 32.8% | 31.1% | 29% | 30 |
| Hospita | al Cost | s per P | atient | (Mean f | or patie | nts with | Hospital | l Use) | | | | | | | | Over | all Mean : | = \$12,200 | | |
| \$13,334 | \$12,828 | \$17,585 | \$13,495 | \$12,546 | \$10,859 | \$11,523 | \$10,261 | \$10,928 | \$10,550 | \$11,949 | \$13,800 | \$10,578 | \$12,294 | \$11,069 | \$10,626 | \$13,345 | \$11,624 | \$14,898 | \$14,571 | \$12 |
| l loopite | al Cant | D | a at 0 | ·to /NA | | | ما طائنی | mital | -) | | | | | | | 0 | | 04.450 | | |
| Hospita | ai Cost | s per D | ay or S | tay (IVI | ean for | patients | with nos | spital us | e <i>)</i> | | | l | | | | Over | all Mean | = \$1,153 | | |
| \$996 | \$1,189 | \$1,218 | \$1,228 | \$977 | \$1,011 | \$1,222 | \$970 | \$1,107 | \$993 | \$1,160 | \$1,176 | \$959 | \$1,174 | \$941 | \$1,247 | \$1,409 | \$1,222 | \$1,461 | \$1,430 | \$1, |
| Outpat | ient Co | sts per | Patien | t (Mea | n for pa | tients wi | th outpa | tient use | ∋) | | | | | | | Over | all Mean : | = \$6,073 | | |
| \$6,935 | \$6,366 | \$7,195 | \$5,510 | \$6,511 | \$5,304 | \$5,750 | \$5,556 | \$5,407 | \$5,853 | \$5,415 | \$6,664 | \$5,204 | \$5,390 | \$5,782 | \$5,455 | \$6,450 | \$6,679 | \$7,397 | \$7,383 | \$6, |
| Outpat | ient Co | sts per | Visit D | ay (Me | ean for p | patients | with outp | patient u | se) | | | | | | | Over | all Mean : | = \$311 | | |
| \$309 | \$276 | \$321 | \$320 | \$269 | \$315 | \$315 | \$282 | \$336 | \$270 | \$330 | \$288 | \$311 | \$323 | \$296 | \$278 | \$321 | \$338 | \$323 | \$327 | \$3 |
| Medica | al Costs | (Mea | n for al | l patien | ts) | | | | | | | | | | | Overa | ıll Mean = | \$912 | | |
| | \$871 | \$1,252 | \$804 | \$1,079 | \$849 | \$886 | \$927 | \$1,085 | \$711 | \$897 | \$1,407 | \$955 | \$875 | \$800 | \$972 | \$913 | \$870 | \$727 | \$887 | \$1 |
| \$639 | φ07 I | | | | | | | | | | | | | | | Overa | II Mean = | CE12 | | |
| | | s (Mea | n for a | ll patien | ıts) | | | | | | | | | | | | ii ivicari – | क्ठाउ | | |
| | | \$ (Mea \$582 | on for a \$556 | II patien \$559 | \$405 | \$467 | \$387 | \$544 | \$405 | \$456 | \$606 | \$390 | \$486 | \$541 | \$509 | \$558 | \$633 | \$688 | \$575 | \$6 |
| Surgica \$488 | al Costs | \$582 | \$556 | | \$405 | \$467 | \$387 | \$544 | \$405 | \$456 | \$606 | \$390 | \$486 | \$541 | \$509 | \$558 | | \$688 | \$575 | \$(|